## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE     |
|---------------------------|----------|--------|----------|
|                           | 1011     | 2020   | Intester |
| FEE DETERMINATION         | 191      | 6/019  | 10105100 |
| O.I.P.E. CLASSIFIER       | - 00     | 1,0000 | 10-12-00 |
| FORMALITY REVIEW          | KS.      | 01730  | 10-22-50 |
| RESPONSE FORMALITY REVIEW |          |        |          |
|                           |          |        |          |

## INDEX OF CLAIMS

| Rejected                   |   | Non-elected  |
|----------------------------|---|--------------|
| Allowed                    | 1 | Interference |
| (Through numeral) Canceled |   | Appeai       |
| Restricted                 |   | Objected     |

|          |      |               |          |          |               | •            | •            |          | •••••    |           |           |                 |          |
|----------|------|---------------|----------|----------|---------------|--------------|--------------|----------|----------|-----------|-----------|-----------------|----------|
| Cla      | im   | <b>±</b>      |          |          |               | Da           | ite          | _        |          |           |           |                 |          |
| Finai    |      | 3.29-0        |          |          |               |              |              |          |          |           |           |                 |          |
| Ē        | ō    | Š             | L        | L        | L             | ╀            | L            | 1        | -        | 4         | _         |                 |          |
| ķ        | Ø    | V             | L        | ╄        | $\perp$       | +            | ļ.           | +        | +        | 4         | 4         | $\dashv$        |          |
|          | 2    | V,            | $\vdash$ | +        | ╁             | ╁            | +-           | +        | +        | +         | $\dashv$  | -               |          |
| _        | 3    | V             | H        | ╁        | ╀             | ╁            | ╁            | ╁        | +        | +         | ᅱ         | -               |          |
| _        | 4    | Y.            | ┝        | ╁        | +             | +            | +            | t        | ╅        | 1         |           |                 |          |
| _        | 6    | ٧             | H        | +        | T             | ✝            | T            | Ť        | $\top$   | T         |           |                 |          |
| _        | 7    | J             |          | T        | I             | Ι            | Ι            |          | ]        | $\Box$    |           |                 |          |
|          | 8    |               |          | I        | L             | 1            | Ļ            | $\perp$  | 4        | 4         |           |                 |          |
| _        | G    | _             | L        | 1        | 4-            | 4-           | 4            | +        | +        | -         |           | $\vdash \vdash$ |          |
| _        | 10   |               | ╀        | ╀        | +-            | +            | ╀            | +        | +        | -         |           | Н               |          |
|          | 12   |               | ┝        | +-       | +-            | ╁            | +            | ╁        | +        | $\dashv$  | _         |                 |          |
| -        | 13   | -             | t        | +        | ╅             | ✝            | $\dagger$    | +        | 7        | _         |           |                 |          |
| _        | 14   | -             | T        | 1        | Ť             | $\top$       | T            | 1        |          |           |           |                 |          |
| Г        | 15   |               |          | $\perp$  |               |              | $\perp$      | Ţ        | $\Box$   |           |           |                 |          |
|          | 16   | -             |          |          | 1             | 1            | $\downarrow$ | 4        | 4        | 4         |           | ļ               |          |
|          | 17   |               | ╀        | 4        | -             | 4            | 4            | 4        |          | -1        |           | -               |          |
| _        | 18   | -             | ╀        | +        | +             | +            | +            | +        | $\dashv$ | _         | -         | ├-              |          |
| H        | 19   | +             | ╀        | +        | +             | +            | +            | +        | ┥        | _         | _         | +-              | 1        |
| _        | 20   | -             | ╀        | +        | +             | +            | +            | +        | $\dashv$ |           |           | +-              |          |
| H        | 22   |               | ╁        | +        | +             | ╁            | +            | †        |          |           | $\vdash$  | $\vdash$        | 1        |
| F        | 2:   |               | t        | +        | +             | $\top$       | $\top$       | 1        | _        |           |           | 1               | 1        |
| Γ        | 2    | 4             | T        |          | $\top$        | $\Box$       |              | $\Box$   |          |           |           | L               | ]        |
|          | 2    | 5             | I        |          | 1             |              | 1            | _        | _        | L         |           | ↓_              | 4        |
| L        | 20   |               | 4        | 4        | 4             | 4            | 4            |          | _        |           | ļ.        | +-              | 4        |
| L        | 2    |               | +        | +        | +             | +            | +            |          | _        | -         | ╁         | ╁               | +        |
| H        | 2    | -             | t        | +        | +             | +            | $\dashv$     | -        | _        | -         | $^{+}$    | +               | 1        |
| H        | 3    |               | $^{+}$   | $\dashv$ | 寸             | $\dashv$     | 7            |          |          |           | t         | T               | 1        |
|          | 3    |               | †        | 7        | ┪             | 7            |              |          |          |           |           |                 | ]        |
|          |      | 2             | 1        |          |               |              |              |          |          |           | I         | 1-              | ]        |
|          |      | 3             |          |          |               | _            |              |          | _        | ┶         | 1         | -               | 4        |
| L        |      | 4             | 4        | _        | _             | $\dashv$     | 4            |          | 1        | ┝         | ╀         | +               | 4        |
| ┝        |      | 5             | +        | -        | ႕             | $\dashv$     | -            | _        | -        | +-        | ╁         | +               | $\dashv$ |
| $\vdash$ | L_   | 37            | +        | -        | -             | $\dashv$     |              |          | -        | ╁         | $\dagger$ | +               | 7        |
| $\vdash$ | _    | 8             | 7        | _        |               |              | _            |          |          | 1         | 1         | 十               | ٦        |
| 卜        |      | 39            | 1        | $\neg$   |               |              |              |          |          | T         | I         | $\perp$         |          |
| ٢        | 7    | Ю             | $\neg$   |          |               |              |              |          |          | L         | $\perp$   | $\perp$         |          |
| T        | - 1: | 41            |          |          | 7             |              |              |          | Ĺ        | $\perp$   | 1         | į.              |          |
|          |      | 2             |          | ď        |               |              | $\Box$       | L        | $\perp$  | 1         | 4         | +               | 4        |
| Ĺ        |      | 43            | _        | _        | <u> </u>      | <u> </u>     | $\vdash$     | $\vdash$ | +        | +         | +         | +               | 4        |
| -        |      | 44            | _        | _        | <u> </u>      | <del> </del> | $\vdash$     | $\vdash$ | +        | +         | +         | +               | _        |
| -        |      | 45<br>46      |          | -        | ├             | -            | 1            | ╁        | +        | +         | +         | +               | -        |
| -        | -    | 46<br>47      |          | $\vdash$ | $\vdash$      | $\vdash$     | $\vdash$     | +        | +        | +         | +         | $\dashv$        | _        |
| +        |      | 48            | _        | -        | -             | †-           | $t^-$        | †        | 1        | $\dagger$ | 1         |                 | _        |
| t        | _    | 49            |          | $\vdash$ |               |              |              | L        | I        | I         |           | $\Box$          |          |
| -        |      | $\rightarrow$ |          | _        | $\overline{}$ |              | _            | 1        | - 1      | - 1       | - 1       | ι               |          |

| Cla      | im       |    | _ | _        | _      | _ |          | D | at | e |        | _ |   |    | _ |   |   |           |
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|          | <u>a</u> |    |   |          | _      |   |          |   |    |   |        |   |   |    |   |   |   |           |
| Final    | Origi    |    | L |          | _      | L |          |   |    | L |        | _ |   |    | L |   | L | 4         |
|          | 51       | _  | L | 1        | _      | Ļ |          | L |    | L |        | L | _ |    | 1 | _ | L | 4         |
|          | 52       |    | L | 1        |        | L | _        | L |    | L |        | L | 4 | _  | ļ |   | _ | 4         |
|          | 53       |    | L |          | _      | L |          | L | _  | L | _      | L | _ |    | 1 |   | L | 4         |
|          | 54       |    | L | 4        |        | Ļ |          | L |    | L |        | _ | - |    | + |   | Ļ | 4         |
| _        | 55       | _  | L | 4        | _      | 1 | _        | Ļ | _  | Ļ |        | L |   |    | + | _ | ╀ | $\dashv$  |
|          | 56       | _  | Ļ | 4        | _      | ╀ |          | ╀ | _  | ┞ |        | H | 4 |    | + | - | ╀ | $\dashv$  |
| _        | 57       | _  | ŀ | 4        |        | ╀ | _        | ╀ | -  | ╁ | _      | ├ | - | _  | + |   | ╁ | $\dashv$  |
|          | 58       | _  | ⊦ | 4        |        | + |          | ╁ |    | ┞ | _      | H | _ |    | + | _ | ╁ | ⊣         |
|          | 59       |    | ╀ | ᅥ        | _      | + |          | ╁ |    | H | -      | H |   | -  | t |   | t | ٦         |
| _        | 61       |    | ╁ | -        | _      | t | _        | t | -  | t |        | t |   |    | + |   | t | -         |
| _        | 62       | _  | ╁ | -        | _      | + | _        | t | -  | t | _      | t |   | H  | † |   | † |           |
| _        | 63       |    | t | ٦        |        | t | _        | t |    | t |        | t | _ | Г  | 1 | _ | t |           |
| -        | 64       | _  | t | _        | Т      | † | _        | t |    | t | _      | T | _ | Г  | 1 | _ | Ť |           |
| Г        | 65       |    | T | _        | Г      | 1 |          | Ť |    | T |        | T | _ |    |   |   | Ţ |           |
| Г        | 66       |    | 1 |          |        | 1 |          | I |    | I |        | I |   |    |   |   |   |           |
| Г        | 67       |    |   |          |        | 1 |          | I |    | I |        |   |   |    |   |   | 1 |           |
|          | 68       |    | I |          |        |   |          | Ī |    | Ţ |        | 1 | _ | L  | _ | _ | 1 |           |
|          | 69       |    | I |          |        |   |          | 1 |    | 1 |        | 1 |   | ↓_ |   | Ŀ | 1 |           |
| Г        | 70       |    |   |          |        |   |          | 1 | _  | 1 |        | 1 |   | L  |   | L | 1 |           |
|          | 71       |    | Ţ |          |        |   | _        | 1 |    | 4 |        | 1 |   | Ļ  |   | L | 4 |           |
| L        | 72       |    | 1 | -        | Ļ      | _ | L        | 4 |    | 4 | _      | 1 |   | ╀  |   | L | 4 | _         |
| L        | 73       | _  | 4 | _        | ╀      |   | <u> </u> | 4 |    | 4 | _      | + |   | ╀  |   | H | 4 | _         |
| L        | 74       | _  | 4 | _        | ļ      | _ | L        | 4 | _  | - | _      | + | _ | ╀  | _ | ┞ | 4 |           |
| ┡        | 75       | _  | 4 |          | ╀      | _ | $\vdash$ | 4 | _  | - |        | + | _ | ╁  |   | ├ | + | -         |
| $\vdash$ | 76       | -  | + |          | ╀      |   | H        | - | _  | 4 | -      | + | _ | +  | _ | t | - | _         |
| $\vdash$ | 78       | ┝  | + | -        | +      |   | H        | - | -  | - | H      | 1 |   | t  | _ | t |   | -         |
| $\vdash$ | 79       | ┝  | + | _        | t      | - | H        | - | ┝  | _ | H      | d | Г | Ť  | • | T | _ | r         |
| <b>-</b> | 80       | H  | 7 |          | t      | _ | t        | _ | r  | _ | H      |   | Г | †  |   | T | _ | Г         |
| H        | 81       | ⊢  | 1 | _        | †      |   | T        |   | T  | _ |        |   | Г | T  |   | Ι |   | Ţ         |
| r        | 82       | T  | 7 |          | T      |   | T        |   |    |   |        |   | L |    |   | I |   |           |
| ļ        | 83       | Ι  |   |          |        |   | Γ        |   |    |   |        | _ | Ĺ | 1  |   | 1 | _ | L         |
|          | 84       | -  |   | Ĺ        | $\int$ |   | I        |   | L  | _ | L      |   | L | 4  | _ | 1 |   | 1         |
|          | 85       |    |   | L        | 4      | _ | 1        |   | Ļ  | _ | 1      | _ | L | 4  | _ | + |   | +         |
| 1        | 86       | 4- |   | _        | 4      | _ | 4        | _ | +  | _ | 1      | _ | + | -  |   | + | _ | +         |
| ļ        | 87       | +  |   | $\vdash$ | 4      |   | +        |   | +  | _ | ╀      | _ | + | +  |   | + | - | ╁         |
| -        | 88       | -  | _ | -        | +      | _ | +        | _ | +  | _ | +      | _ | ╁ | +  |   | + | _ | +         |
| -        | 89       | -  | _ | +        | +      | - | +        | _ | +  | - | +      | _ | + | Ť  | - | + | _ | +         |
| ŀ        | 90       |    | _ | +        | -      | _ | +        |   | +  |   | +      | _ | + | +  | _ | + | _ | +         |
| -        |          | _  |   | H        | 4      | _ | +        |   | +  |   | ļ      |   | + |    |   | + | - | +         |
| ŀ        | 92       |    | _ | +        | -      | _ | +        |   | +  |   | $^{+}$ | - | + | -  | H | 1 | _ | $\dagger$ |
| }        | 9        | -+ |   | ╁        | +      | - | +        | _ | +  |   | †      |   | + | _  | Γ | - |   | +         |
| -        | 9        |    | - | $^{+}$   | -      | - | +        | - | +  |   | +      | _ | † | _  | T | 7 | Г | ţ         |
| ł        | 9        | -+ |   | t        |        | 1 | -        | _ | 1  | _ | 7      | _ | † | _  | Γ | _ |   | 1         |
| ł        | 9        | -+ | _ | t        | _      | Γ | 1        | _ | 7  | _ | 1      | _ | I |    |   |   |   | I         |
|          |          | 8  | _ | †        |        | Γ |          |   | 1  |   | 1      |   | 1 | _  |   |   |   | _[        |
| ļ        | 9        | 9  |   | T        |        | ſ | ٦        | ۱ |    |   | ĺ      |   | 1 |    | L |   | L | ┙         |

|        | im         |            | _        |          |              | 0         | ate | <br>9        |              | _            |           |          |          |
|--------|------------|------------|----------|----------|--------------|-----------|-----|--------------|--------------|--------------|-----------|----------|----------|
|        | Original   |            |          |          |              |           |     |              |              |              |           |          |          |
| -<br>E |            | _          | L        |          | $\perp$      | 1         | 4   |              | <u> </u>     | _            | _         | $\vdash$ |          |
| _      | 101<br>102 | _          | <u> </u> | ╁        | -            | ╁         | +   |              | ⊢            | $\vdash$     | ⊢         | H        |          |
|        | 103        |            | -        | +        | +            | +         | ┥   |              | ├            | ╁            | ╁╌        |          | -        |
| -      | 104        |            | $\vdash$ | +        | ╁╴           | $^{+}$    | +   |              | ╁╌           | -            | 1         | -        | ١.       |
| _      | 105        | 1          |          | T        | T            | T         |     |              |              |              |           |          |          |
|        | 106        |            |          |          |              | 1         |     |              |              | L            | L         |          | ]        |
| _      | 107        |            | Ļ        | $\perp$  | $\downarrow$ | 4         | _   |              | L            | Ļ            | $\vdash$  | _        |          |
|        | 108        |            | ┞        | ╁        | -            | +         | _   |              | ╀            | ╀            | ╄         | -        | ł        |
|        | 109        |            | ╁        | +-       | +            | +         | _   | -            | $\vdash$     | ╁            | ╁         | ╁        | 1        |
|        | 111        |            | ╁╴       | +-       | +            | +         |     | -            | t            | ╁            | ╁         | $\vdash$ | 1        |
|        | 112        |            | ╁        | +        | t            | +         |     | -            | Ť            | $^{\dagger}$ | †         | $\vdash$ | 1        |
|        | 113        | 1          | †        | T        | Ť            | 7         |     |              |              |              |           |          | ]        |
|        | 114        | 4          | 1        | I        | I            |           |     |              | L            | $\perp$      | L         | L        | ]        |
|        | 11!        |            | 1        | 1        | $\perp$      | 4         |     | <u> </u>     | -            | -            | 1         | ╄-       | 4        |
|        | 110        |            | -        | +        | $\perp$      | -         |     | -            | +            | ╁            | +         | ╀        | ┨        |
|        | 11         |            | ╀        | +        | +            | +         | _   | $\vdash$     | ╁            | +-           | ╁         | 十        | 1        |
| _      | 11         | 9          | ╁        | +        | +            | +         | _   | ╁            | ╁            | +            | 十         | +        | 1        |
| _      | 12         | _          | ╁        | - -      | 十            | ┪         | _   | +            | +            | ╅            | †         | T        | 1        |
|        | 12         | 1          | ╁        | +        | 十            | ᅦ         | _   | $\vdash$     | +            | +            | +         | +        | 1        |
|        | 12         | 2          | +        | †        | 十            | _         | _   | 1            | 1            |              |           |          | ]        |
| _      | 12         | 3          |          |          |              |           |     |              | $\perp$      | $\perp$      | $\perp$   | 1        | 4        |
|        | 12         |            |          |          |              |           |     | $\perp$      | $\downarrow$ | -            | +         |          | 4        |
|        | 12         |            | 1        | 4        | -            | _         | H   | $\downarrow$ | +            | +            |           | +        | $\dashv$ |
| _      | 12         |            | +        | 4        | +            |           | ŀ   | +            | +            | +            | +         | +        | ㅓ        |
| -      |            | 27<br>28   | +        | +        | $\dashv$     |           | -   | +            | +            | +            | $\dagger$ | +        | ┥        |
| ┝      |            | 29         | +        | +        | -†           | _         | -   | +            | +            | $\top$       | 1         |          | _        |
| -      |            | 30         | +        | 7        | ┪            |           | -   | 1            |              |              |           | $\prod$  |          |
| ۲      |            | 31         |          |          |              |           |     | I            |              |              | _         | 4        | _        |
| L      |            | 32         |          |          |              |           | L   | 1            | 4            |              | -         | +        | _        |
| L      |            | 33         | -        | _        |              |           | ╁-  | +            | +            | $\dashv$     | -+        | +        | _        |
| F      |            | 34<br>35   | $\dashv$ |          |              | -         | ╀   | +            | +            | $\dashv$     |           | +        |          |
| H      |            | 36         | +        | -        | _            | -         | +-  | +            | +            | -            | $\dashv$  | +        |          |
| ŀ      |            | 37         | -        |          | _            |           | T   | 1            |              |              |           | I        |          |
| t      |            | 38         | 1        |          |              |           | I   |              |              |              |           | 1        |          |
| L      |            | 39         |          |          |              |           | Į   | _            | -            |              | _         | -+       | _        |
|        | _1         | 40         |          |          | _            | L         | 1   | 4            |              | -            | _         | -        | _        |
| 1      |            | 141        |          |          | _            | Ļ         | 1   | 4            |              |              | -         | -        | _        |
| 1      | _‡         | 142<br>143 | _        | _        | _            | Ļ         | +   | -            |              | _            | -         | $\dashv$ |          |
| ļ      |            | 143<br>144 | _        | -        |              | ┼-        | +   | +            | -            |              | -         | _        |          |
| -      | -          | 144        |          | $\vdash$ | -            | +         | +   | +            |              |              |           |          | _        |
| }      |            | 146        | _        | $\vdash$ | 1            | $\dagger$ | +   | 7            |              |              |           |          |          |
| 1      |            | 147        | _        | -        | Γ            | T         | 1   |              |              |              |           |          | _        |
| Ì      | `          | 148        |          |          | $\Box$       | I         | 1   |              |              | L            | _         |          |          |
| Ì      |            | 149        |          | L        | 1            | 1         | 4   | _            | _            |              |           |          | _        |
| į      |            | 150        |          | 1        | 1            | 1         | !   |              |              | !            |           | :        | <u>-</u> |

If more than 150 claims or 10 actions staple additional sheet here

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## Best Available Copy